

Amendments to the Specification:

Please replace the abstract at page 21 with the following amended abstract:

ABSTRACT

A spectroscope for detecting vulnerable plaque within a lumen defined by an intraluminal wall includes a probe through which an optical fiber extends. A [[n]] coupler in optical communication with the fiber is configured to atraumatically contact the intraluminal wall. A light source provides light to the fiber for illuminating the wall and a detector coupled to the fiber receives light from within the wall.